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(54) Title: RECORDING INFORMATION FOR SEAMLESS PLAYBACK

extent size [KB]	max. bit rate [kbps]	max. data rate [KB/s]
64	291.1	35.5
128	508.8	62.1
256	812.6	99.2
512	1158.4	141.4
1024	1471.5	179.6

(57) Abstract: A disc recording device has a rule based extent allocation strategy. Real-time information like audio is to be reproduced continuously via a rendering system having predefined properties: a buffer, a minimal read-out speed Rdisc, and a maximal seek time Tseek. The information is arranged in files that have a maximal data rate Rfile, and a maximal size of header information Sheaders that precedes

and/or follows the real-time information in the file. The information of the files is recorded in contiguous parts of the track at least having the size of Sextent. The device has an allocation unit (35) for determining a minimal size of an extent Sextent that is a continuous recording unit at least taking into account the properties Rdisc, Tseek, Rfile and Sheaders, in particular according to
Sextent = ((Tseek + Sheaders / Rdisc) * Rfile * Rdisc) / (Rdisc - Rfile).

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